

WHAT IS CLAIMED IS:

1. An improved method for students to carry out chemical reactions by mixing a fluid reactant with a reactive component to produce a reaction product, wherein the improvement comprises the step of: providing a package fabricated of upper and lower sheet material defining at least a first closed chamber containing a first fluid reactant and an adjacent second closed chamber containing a reactive component, the package formed by sealing the upper sheet material to the lower sheet material at the periphery of the chambers, at least the upper sheet material being flexible so that when the first chamber is pressed, then the first fluid reactant will break the seal between the first and second chambers and flow into the second chamber to react with the reactive component in the second chamber to produce a reaction product, the reaction product to be observed by the student through the package.
2. The method of Claim 1, wherein the reaction product is a colored acid/base indicator.
3. The method of Claim 1, wherein the reaction product is a precipitate.
4. The method of Claim 1, wherein the reaction product is a metal.
5. The method of Claim 1, wherein the reaction product is an inorganic compound.
6. The method of Claim 1, wherein the reaction product is an organic compound.
7. The method of Claim 1, wherein the reaction product is a gas.

8. The method of Claim 1, wherein the reaction product is a result of enzyme catalysis.
9. The method of Claim 1, wherein the reaction product is hotter or colder than the reactant immediately prior to the reaction.
10. The method of Claim 1, wherein the reaction product is formed slowly enough so that its kinetics of appearance can be determined.
11. The method of Claim 1, wherein instructions to the student are printed on or in the package.
12. An improved method for demonstrating chemical reactions to a student by mixing a fluid reactant with a fluid reactive component to produce a reaction product, wherein the improvement comprises the step of: providing a package fabricated of upper and lower sheet material defining at least a first closed chamber containing a first fluid reactant, a second closed chamber containing a first fluid reactive component, the first closed chamber and the second closed chamber each being adjacent a third closed chamber, the package formed by sealing the upper sheet material to the lower sheet material at the periphery of the chambers, at least the upper sheet material being flexible so that when the first chamber is pressed, then the first fluid reactant will break the seal between the first and the third chambers and flow into the third chamber and so that when the second chamber is pressed, then the first fluid reactive component will break the seal between the second and third chambers and flow into the third chamber to react with the first fluid reactant in the

third chamber to produce a reaction product, the reaction product to be observed by the student through the package.

- 5 13. An article of manufacture, comprising a package fabricated of upper and lower sheet material defining at least a first closed chamber containing a first fluid reactant and an adjacent second closed chamber containing a reactive component, the package formed by sealing the upper sheet material to the lower  
10 sheet material at the periphery of the chambers, at least the upper sheet material being flexible so that when the first chamber is pressed, then the first fluid reactant will break the seal between the first and second chambers and flow into the second chamber to react with the reactive component in the second  
15 chamber to produce a reaction product, the reaction product selected from the group consisting of a colored acid/base indicator, and a precipitate.
- 20 14. An article of manufacture, comprising a a package fabricated of upper and lower sheet material defining at least a first closed chamber containing a first fluid reactant, a second closed chamber containing a first fluid reactive component, the first closed chamber and the second closed chamber each being  
25 adjacent a third closed chamber, the package formed by sealing the upper sheet material to the lower sheet material at the periphery of the chambers, at least the upper sheet material being flexible so that when the first chamber is pressed, then the first  
30 fluid reactant will break the seal between the first and the third chambers and flow into the third chamber and so that when the second chamber is

5       pressed, then the first fluid reactive component will  
break the seal between the second and third chambers  
and flow into the third chamber to react with the  
first fluid reactant in the third chamber to produce  
a reaction product, the reaction product, the  
reaction product selected from the group consisting  
of a colored acid/base indicator, and a precipitate.